Climate Change Vulnerabilities

and Data Final Release June 2015.pdf.

Because of the economic, geographic, and biological diversity of California, vulnerabilities to anticipated future climate changes are best assessed on a regional basis. A few of the key climate change vulnerabilities are indicated. For more in-depth descriptions please go to: http://www.water.ca.gov/ climatechange/docs/CA Climate Science



North Lahontan • Increased air and water temperatures would place additional

stress on sensitive ecosystems and species. • Higher temperatures and longer dry seasons would increase wildfire risk

Mountain Counties · Loss of snowpack storage may reduce reliability

of surface water supplies Snowpack reduction may have significant impacts on the water-

related tourism industry.

San Joaquin River

 Increasing temperatures and variable precipitation patterns would crops by reducing winter chill-hours. increasing extreme heat days and increasing evapotranspiration.

Sacramento River

· Increased air and water temperatures would place additional stress on

sensitive ecosystems affect agricultural and species. Loss of snowpack

storage may reduce reliability of surface water supplies and result in greater demand on groundwater resources.

South Lahontan • Higher temperatures and longer dry seasons would increase wildfire risk and impair water quality in local streams and lakes. Reduced snowpack would impact the winter-

dependent economy which also supports disadvantaged

communities.

reduce local fractured-rock groundwater supplies. Sea level rise may Redding make tidal marshland susceptible to more frequent, longer and Sacramento San Francisco Bay • Sea Stockton San Francisco

level rise may increase the susceptibility of tidal wetlands to more frequent. longer and deeper flooding.

deeper flooding.

North Coast • Longer

drought periods could

Sacramento-San Joaquin Delta · Sea level rise may increase stress on Delta levees and change water quality.

and nearshore ecosystems are vulnerable to increasing sea level and storm surges, while coastal aguifers could be affected by



Central Coast • Coastal infrastructure

increasing salinity intrusion. **South Coast** • Extreme precipitation events may result in greater flood risk,

debris flows, and degradation of habitat.

· Higher temperatures and longer dry seasons would increase wildfire risk and impair water quality in local streams and lakes.



Tulare Lake . Loss of snowpack storage may reduce reliability of surface imported water supplies and replenishment of local supplies, and result in greater demand on groundwater resources. • Increased air and water temperatures would place additional stress on sensitive ecosystems and species.

Colorado River · More frequent and longer droughts would reduce imported water supply reliability and decrease local water quality and

habitat.



Santa Barbara

Los Angeles

San Diego